

ABSTRACT

A device and method for neural transplantation in the human brain comprising a microinjector (1), transplantation cannula (2) and bullet guide (16) is disclosed. The microinjector (1) is designed to connect to the proximal end of a syringe barrel (7) and plunger (12) while the transplantation cannula (2) interfaces with the distal end of the syringe barrel (7). In combination, the microinjector (1) and transplantation cannula (2) permit the delivery of multiple cell grafts in a three-dimensional array using a unique spiral technique. The bullet guide (16), which is attachable to a commercially available stereotactic frame, is a multiple channel adapter that functions as a mechanical guiding system for the transplantation cannula (2) and permits plural, spaced deployment of the cannula (2) without adjusting or disturbing the frame.

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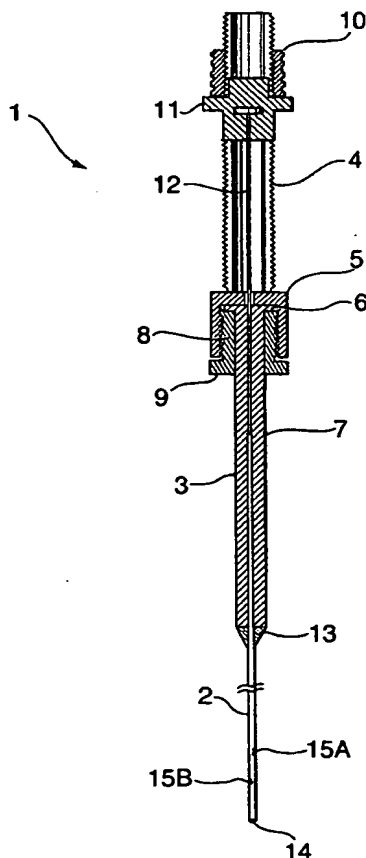
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(54) Title: NEURAL TRANSPLANTATION DELIVERY SYSTEM



(57) Abstract: A device and method for neural transplantation in the human brain comprising a microinjector (1), transplantation cannula (2) and bullet guide (16) is disclosed. The microinjector (1) is designed to connect to the proximal end of a syringe barrel (7) and plunger (12) while the transplantation cannula (2) interfaces with the distal end of the syringe barrel (7). In combination, the microinjector (1) and transplantation cannula (2) permit the delivery of multiple cell grafts in a three-dimensional array using a unique spiral technique. The bullet guide (16), which is attachable to a commercially available stereotactic frame, is a multiple channel adapter that functions as a mechanical guiding system for the transplantation cannula (2) and permits plural, spaced deployment of the cannula (2) without adjusting or disturbing the frame.



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